

Sina Dehghani

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RESEARCH INTERESTS

- Algorithmic Game Theory
- Online Algorithms and Approximation Algorithms
- Algorithmic Graph Theory and Social Networks

EDUCATION

University of Maryland, College park, Maryland. January 2014 - Now
Ph.D. in Theoretical Computer Science.

Advisor: Prof. MohammadTaghi Hajiaghayi.

Sharif University of Technology, Tehran, Iran. 2008-2013

B.S. in Computer Engineering.

Allame Helli, Tehran, Iran. 2004-2008

Affiliated with the *National Organization for the Development of Exceptional Talents* (NODET).

HONORS AND AWARDS

- Dean's Fellowship, University of Maryland, 2014 - 2015.
- 64th Team in ACM-ICPC International programming contest, Morocco 2011.
- Received 4-year National Elite Foundation Fellowship, 2009 - 2012.
- Awarded as outstanding student by the university president, 2009.
- Gold Medal of the Iranian national Olympiad in Informatics, 2007.

PUBLICATIONS

- "Stochastic k -Server Problem", **ICALP** 2017.
Joint work with S. Ehsani, M. Hajiaghayi, V. Liaghat, S. Seddighin.
- "Faster and Simpler Algorithm for Optimal Strategies of Blotto Game", **AAAI** 2017.
Joint work with S. Behnezhad, M. Derakhshan, S. Seddighin.
- "Online Weighted Degree-Bounded Steiner Networks via Novel Mixed Packing/Covering", **ICALP** 2016.
Joint work with S. Ehsani, M. Hajiaghayi, V. Liaghat, H. Räcke, S. Seddighin.
- "Price of Competition and Dueling Games", **ICALP** 2016
Joint work with M. Hajiaghayi, H. Mahini, S. Seddighin.
- "Online degree bounded Steiner Network Design", **SODA** 2016.
Joint work with S. Ehsani, M. Hajiaghayi, V. Liaghat.
- "From Duels to Battlefields: Computing Equilibria of Blotto and Other Games", **AAAI** 2016.
Joint work with A. Ahmadi, M. Hajiaghayi, B. Lucier, H. Mahini, S. Seddighin.
- "Revenue Maximization for Selling Multiple Correlated Items", **ESA** 2015.
Joint work with M. Bateni, M. Hajiaghayi, S. Seddighin.
- "Forming External Behaviors by Leveraging Internal Opinions", **INFOCOM** 2015.
Joint work with A. Ahmadi, M. Hajiaghayi, H. Mahini, S. Seddighin, S. Yazdanbod.

- “How Effectively can we Form Opinions?”, **WWW** (Companion Volume) 2014. Joint work with A. Ahmadi, M. Hajiaghayi, H. Mahini, S.Seddighin, S. Yazdanbod.
- “Using Shortcut Edges to Maximize the Number of Triangles in Graphs”, **ORL** (Operations Research Letters). Joint work with M. Fazli, J. Habibi, S. Yazdanbod.

WORKING PAPERS

- “Pricing the Cloud”. Joint work with I. Kash, Peter Key.
- “Subcubic Equivalences between APSP, Co-Diameter, and other Complementary Problems”. Joint work with S. Ehsani, M. Hajiaghayi, S. Seddighin.
- “Bounded and Envy-Free Chore-Division”. Joint work with A. Farhadi, M. Hajiaghayi, H. Yami.

PROFESSIONAL EXPERIENCES

- Summer internship 2016. Google, NYC. Hosted by Xiaowei Zhang, Varun Sharma, and MohammadHossein Bateni.
- Summer internship 2015. Microsoft Research Ltd Cambridge, UK. Hosted by Peter Key and Ian Kash.

PROFESSIONAL SERVICES

- Reviewer/subreviewer for conferences: SODA, EC, WWW, WINE, INFOCOM, WALCOM.

TEACHING EXPERIENCES

- Teaching assistance at Computer Science Department at University of Maryland:
 - Introduction to Algorithmic Game Theory, Spring 2015, Spring 2016.
- Teaching assistance at Computer Engineering Department at Sharif University of Technology:
 - Artificial Intelligence, Fall 2011.
 - Data Structures and Designing Algorithms, Fall 2011, Spring 2012.
 - Introduction to Programming, Fall 2010.
- Practical programming, Young Scholar’s Club (YSC), Organization for training student participants in Olympiads, Summer 2009, 2010.